

INJURY MORTALITY

AMONG CHILDREN AND ADOLESCENTS

Arizona, 1988-1998



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INJURY MORTALITY

AMONG CHILDREN AND ADOLESCENTS

ARIZONA, 1988-1998

BY

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MAY 2000

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PURPOSE

The purpose of this report is to provide information concerning injury mortality among infants, children (ages 1-14) and adolescents (ages 15-19) in Arizona. The data for 1998 are placed in a temporal context by comparison with the data for the preceding ten years.

METHODS AND SOURCES

Data on the number and characteristics of injury deaths among Arizona residents 19 years old or younger were obtained from the death certificates filed with the Arizona Department of Health Services.

In this report, fatal injuries as the underlying cause of death are defined and coded according to ICD-9* in the following manner:

E800-E949: unintentional injuries;

E950-E979: specified intent, self-inflicted injury in suicide (E950-E959) and injuries purposely inflicted by other person (E960-E979);

E980-E989: unknown, an investigation by a medical or legal authority has not determined whether the injuries are unintentional, homicidal or suicidal.

Population denominators for Arizona residents, used to calculate rates, are projections from the Population Statistics Unit in the Arizona Department of Economic Security (data for 1988-1989 and 1993-1998) and the U.S. Census Bureau (data for 1990 and data by ethnic group for 1998). Detailed population data by gender, age and county were unavailable for 1991-1992. In order to obtain the population denominators for these two years, the 1990 percentages of population breakdowns (or census shares) were applied to 1991 and 1992 total state or county population estimates published by the DES.

**International Statistical Classification of Diseases, Injuries and Causes of Death. Geneva: World Health Organization, 1977.*

KEY FINDINGS

✧ Injury is the leading cause of death among children (except infants under one year) and adolescents both nationwide and in Arizona. Injury surpasses all major diseases as the cause of premature mortality among preschoolers 1-4 years old, children 5-9 years old, children ages 10-14 and adolescents 15-19 years of age (Table 1).

✧ Between 1988 and 1998 injuries caused seven out of every ten deaths (68.5 percent, or 4,466 fatal injuries among 6,520 total deaths of Arizonans 1-19 years old. Unintentional injuries accounted for 2 times as many deaths as homicides and suicides combined (Figure 1).

✧ Compared to the national rates of injury mortality, the 1998 injury death rates were 47 percent higher for Arizona children under five, 21.7 percent higher for children 10-14 years old, and 23.9 percent higher for adolescents 15-19 years old (Figure 2, Table 3).

✧ Among age groups (Table 1), children 5-9 years old had the lowest 1998 rate of injury death (8.5 fatalities per 100,000 Arizona children in this age group), followed by children 10-14 years of age (15.7/100,000), infants (25.7/100,000), and

preschoolers 1-4 years old (28.0/100,000), while the rate was 8.5 times as high for adolescents 15 to 19 years of age (72.6/100,000) compared to children 5-9 years old.

✧ Motor vehicle collisions and drowning are the two major events, which lead to an unintentional injury death for children and adolescents (Figure 4, Table 4). Motor vehicle crashes fatally injured 175 Arizona infants, children and adolescents in 1998.

✧ The third leading event responsible for an unintentional injury death differed according to age group (Table 4). In Arizona, in the eleven-year period from 1988 to 1998, it was suffocation (aspiration of food or other foreign object or mechanical suffocation) among infants and children 5 to 9 years old, burning by fire among preschoolers one to four years old, firearms among children ages 10-14 and poisoning/drug misuse among adolescents 15-19 years old.

✧ Black infants and American Indian children and adolescents had the highest rates of injury death among ethnic groups in 1998. (Figure 5, Figure 6, Figure 7, Table 20).

✧ The homicide rate among teenagers 15-19 years old decreased for the third consecutive year from 33.4/100,000 in 1995 to 16.8/100,000 in 1998 (**Table 1**). During 1998, Black adolescents were 5.8 times more likely than non-Hispanic whites to be murdered (39.4/100,000 vs. 6.8/100,000; **Table 19**).

✧ The rate of suicide fatalities among adolescents 15-19 years old declined from 23.7/100,000 in 1997 to 15.2/100,000 in 1998 (**Table 1**). During 1998, American Indian teenagers were 2.8 times more likely than Blacks to end their own lives (18.5/100,000 vs. 6.6/100,000; **Table 19**).

✧ From 1988 to 1998, among 2,114 fatally injured infants and children under 15 years, 301 (14.2 percent) were victims of neglect, maltreatment or murder (**Figure 8, Table 18**).

✧ During 1997 (the latest year for which the data are available by state), the injury mortality rates among preschoolers 0-4 years old ranged from 3.2/100,000 in Rhode Island to 48.6/100,000 in Alaska. Arizona adolescents ranked eighth in the nation (**Figure 9**).

✧ Injury mortality rates for 5-9 year olds ranged from 1.5/100,000 in Rhode Island to 21.9/100,000 in Alaska. Arizona ranked twelfth (**Figure 10**) among the 50 states and the District of Columbia.

✧ Among children 10-14 years old in 1997, injury mortality rates ranged from 4.6/100,000 in Rhode Island to 26.2/100,000 in South Dakota. Arizona children ages 10-14 also ranked twelfth in the nation (**Figure 11**).

✧ Injury mortality rates among adolescents 15-19 years old ranged from 26.6/100,000 in New Hampshire to 268.1/100,000 in the District of Columbia. Arizona adolescents ranked eighth among all states (**Figure 12**).

✧ Drowning mortality rates for children under 5 years of age ranged from zero (no fatalities) in Rhode Island, Wyoming, New Hampshire, Nebraska and the District of Columbia to 9.2/100,000 in Montana. Arizona, ranked second highest in the nation (**Figure 13**).

✧ Motor vehicle-related injuries displaced drowning as the leading cause of unintentional injury death among Arizona preschoolers 1-4 years old. Motor vehicle crashes were the leading cause of unintentional injury death among preschoolers in 9 of the 11 years from 1988 to 1998 (**Table 14**).

✧ The number of drowning deaths per 100,000 Arizona children 1-4 years old increased for the second consecutive year from 8.5 in 1996 to 9.1 in 1997 and 9.7 in 1998 (**Table 20**), the third highest annual rate since 1988 (**Figure 14**).

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**INJURY MORTALITY AMONG CHILDREN AND ADOLESCENTS,
ARIZONA, 1988-1998**

FIGURES

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FIGURE 1
AVERAGE ANNUAL PERCENT OF TOTAL DEATHS BY MORTALITY CATEGORY AMONG CHILDREN AND ADOLESCENTS 1 - 19 YEARS OLD, ARIZONA, 1988 - 1998

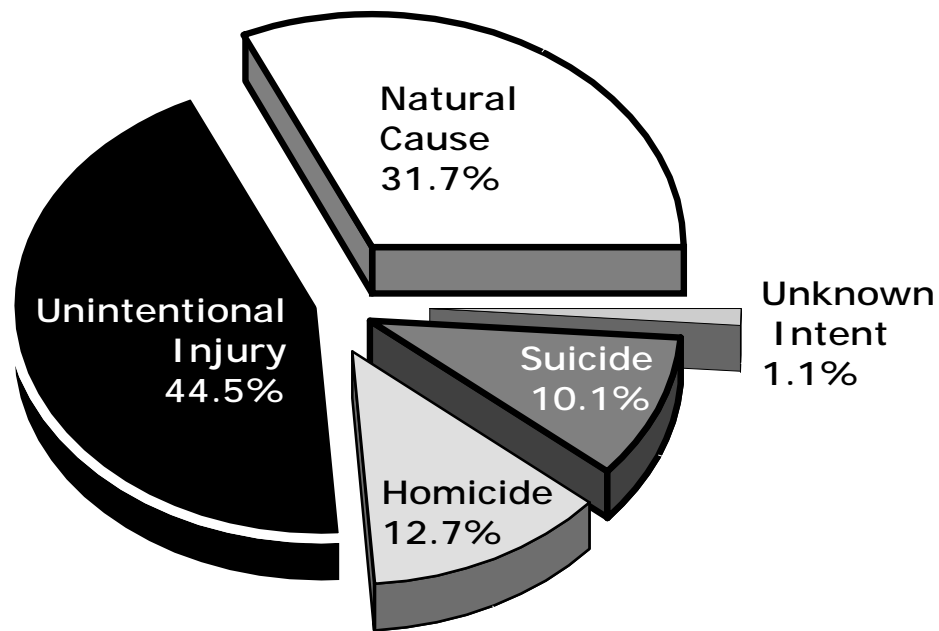
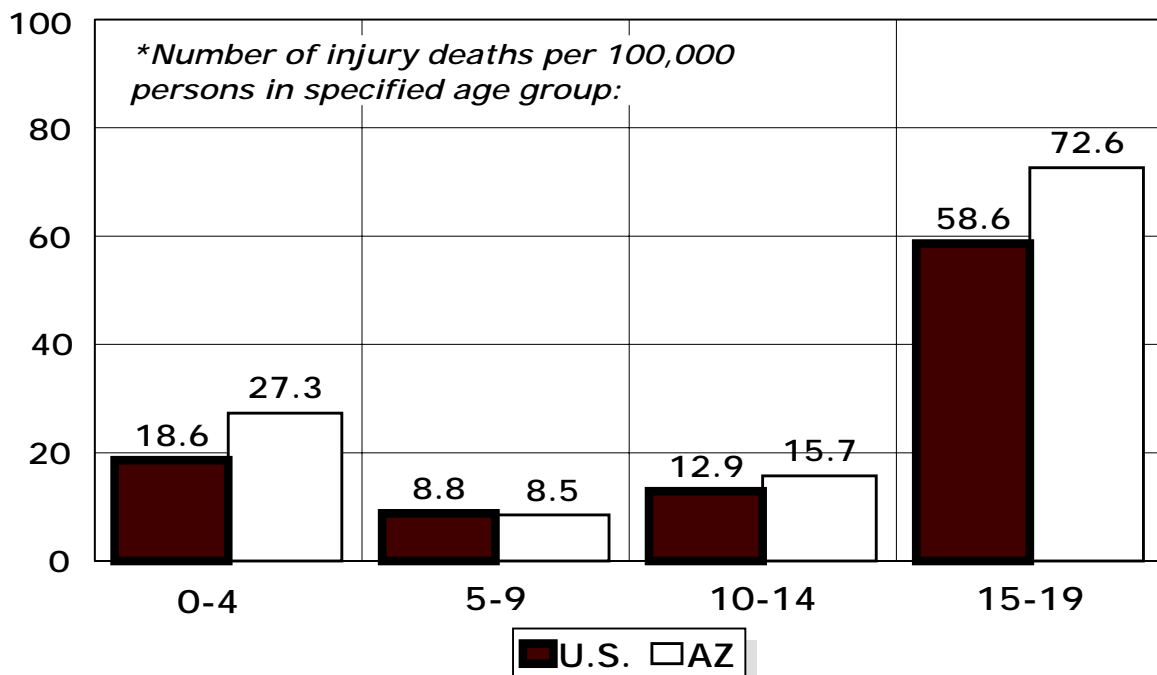


FIGURE 2
RATES OF DEATH FROM INJURIES BY AGE GROUP AMONG CHILDREN AND ADOLESCENTS IN ARIZONA (1998) AND UNITED STATES (1997*)



*The latest year for which the U.S. data are available.

FIGURE 3
RATES OF INJURY DEATHS BY AGE GROUP AMONG PERSONS 0 - 19 YEARS OLD,
ARIZONA, 1988 - 1998

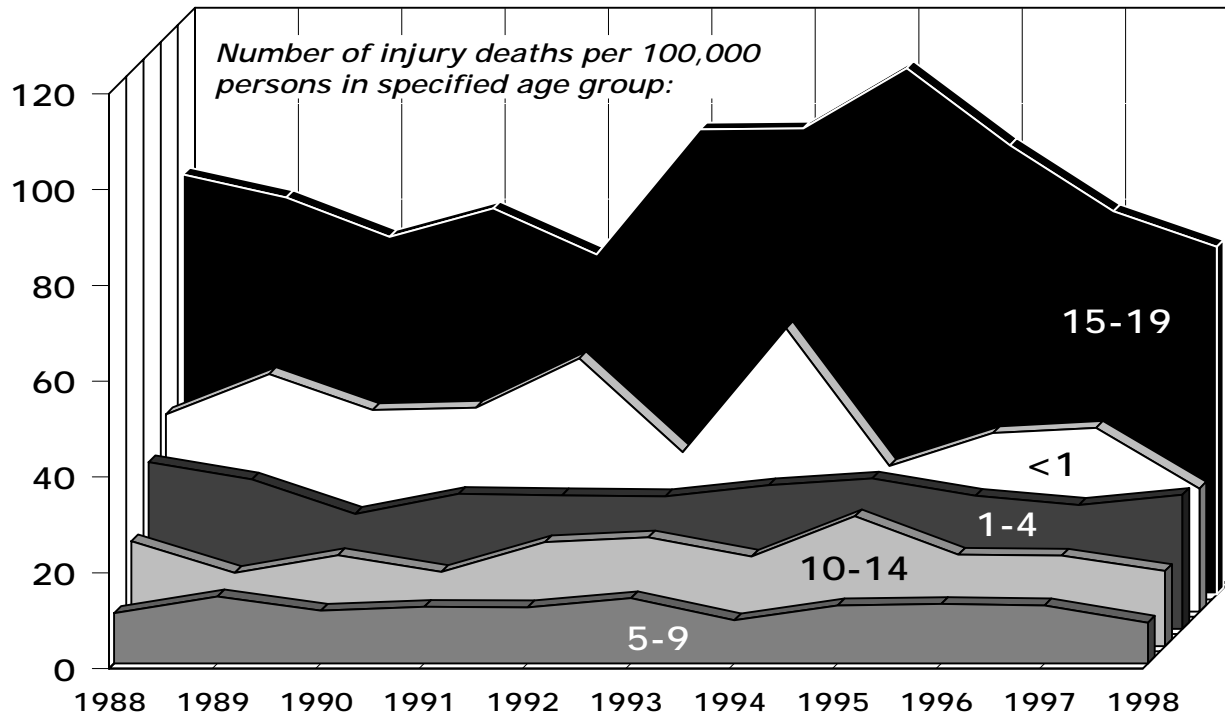


FIGURE 4
AGE-SPECIFIC MORTALITY RATES FOR DROWNING AND MOTOR VEHICLE-RELATED
INJURIES AMONG PERSONS 19 OR YOUNGER, ARIZONA, 1998

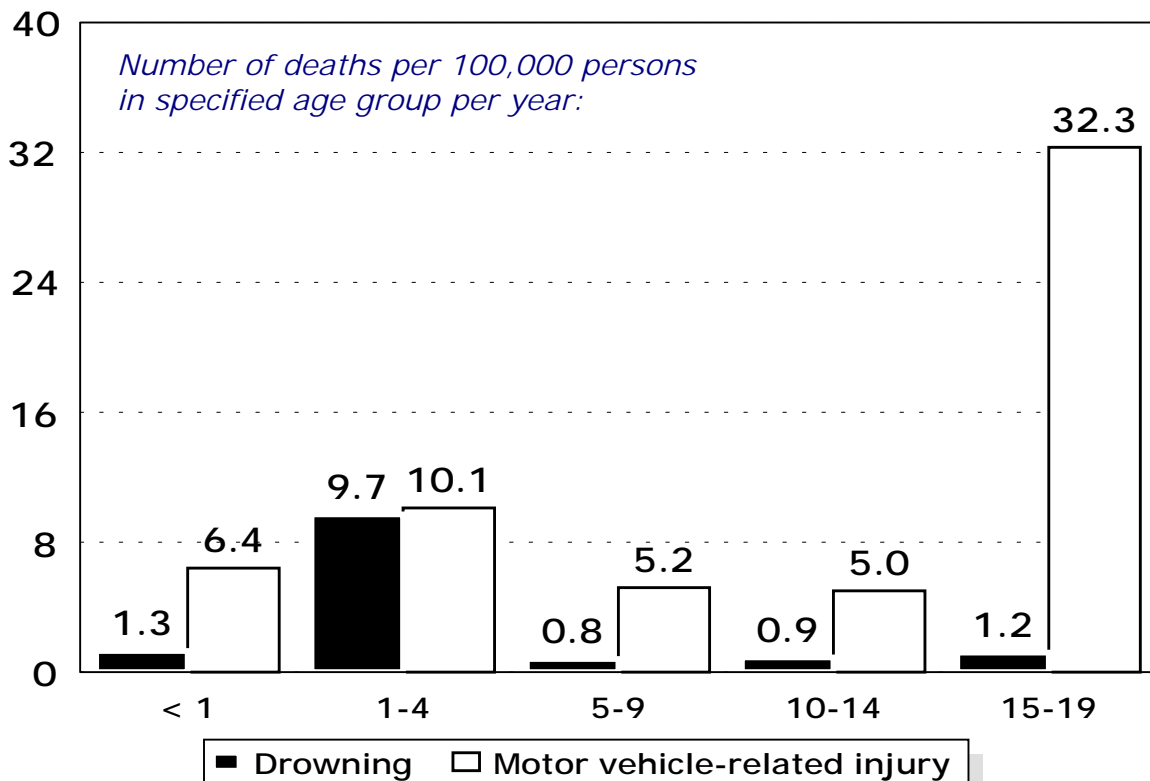


FIGURE 5
INJURY DEATHS BY TYPE AND ETHNIC GROUP AMONG INFANTS
UNDER ONE YEAR, ARIZONA, 1988 - 1998

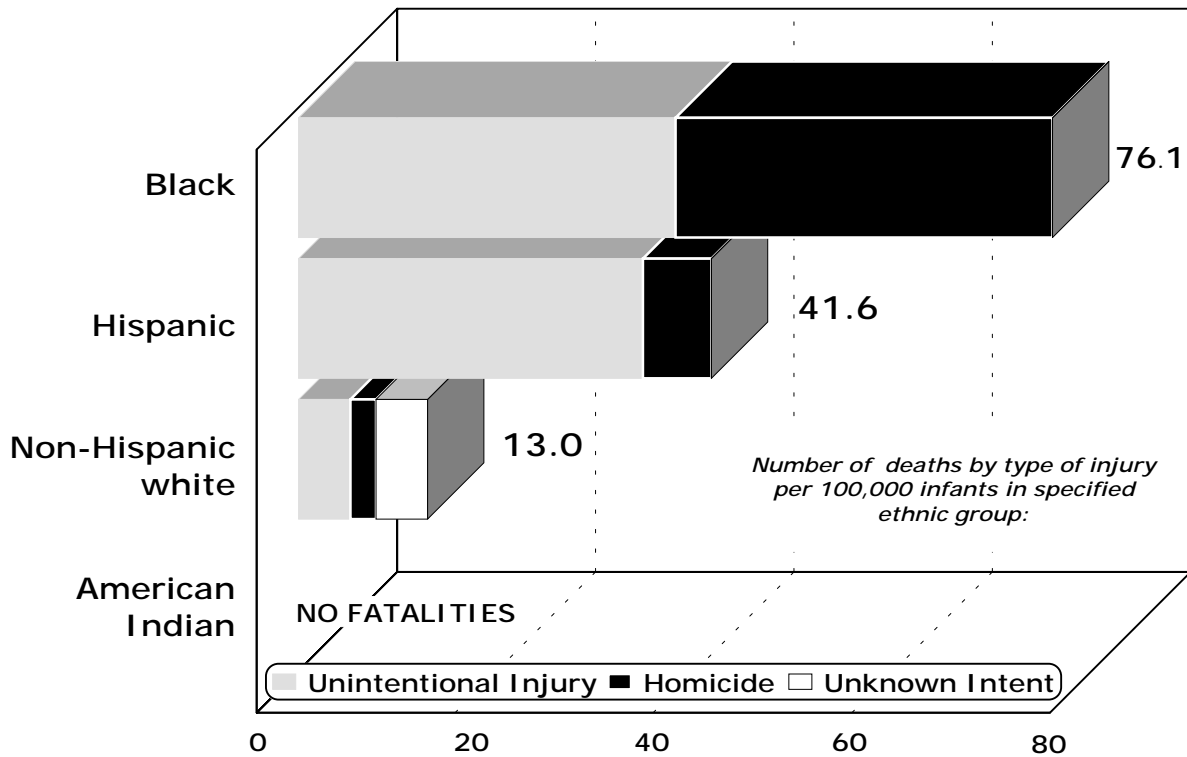


FIGURE 6
INJURY DEATHS BY TYPE AND ETHNIC GROUP AMONG
CHILDREN 0 - 14 YEARS OF AGE, ARIZONA, 1988 - 1998

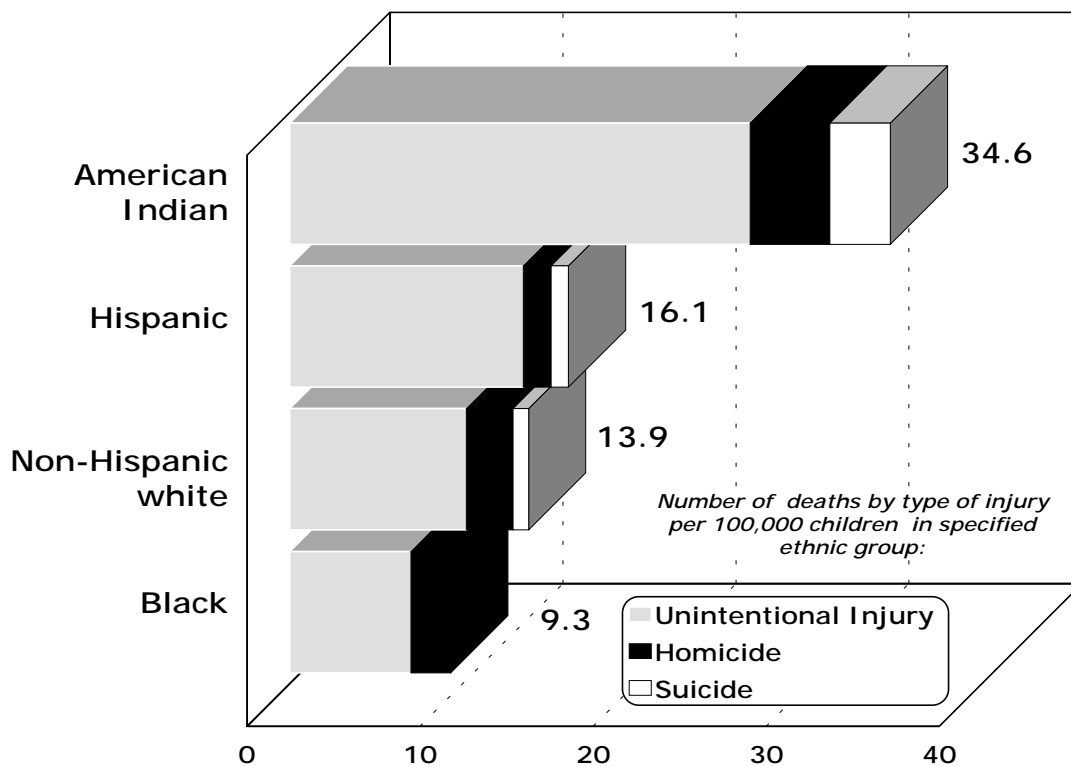


FIGURE 7
INJURY DEATHS BY TYPE AND ETHNIC GROUP AMONG ADOLESCENTS
15 - 19 YEARS OF AGE, ARIZONA, 1988 - 1998

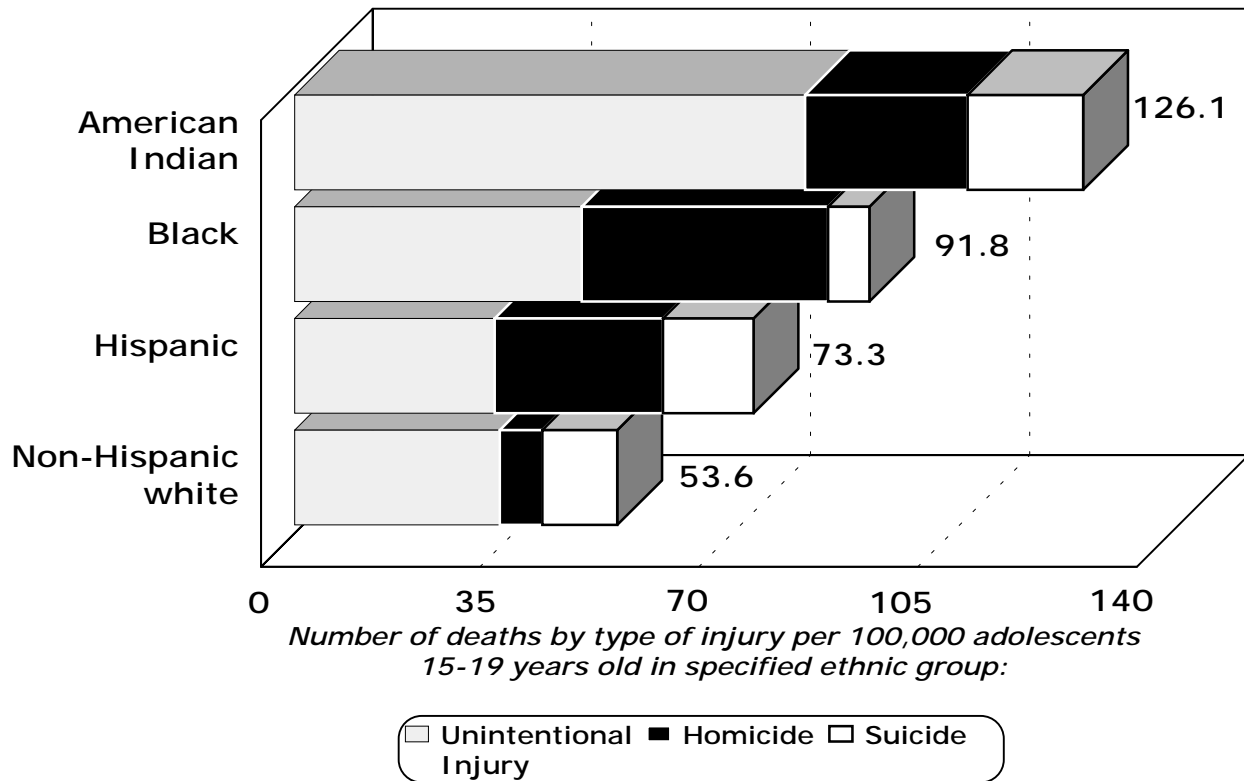
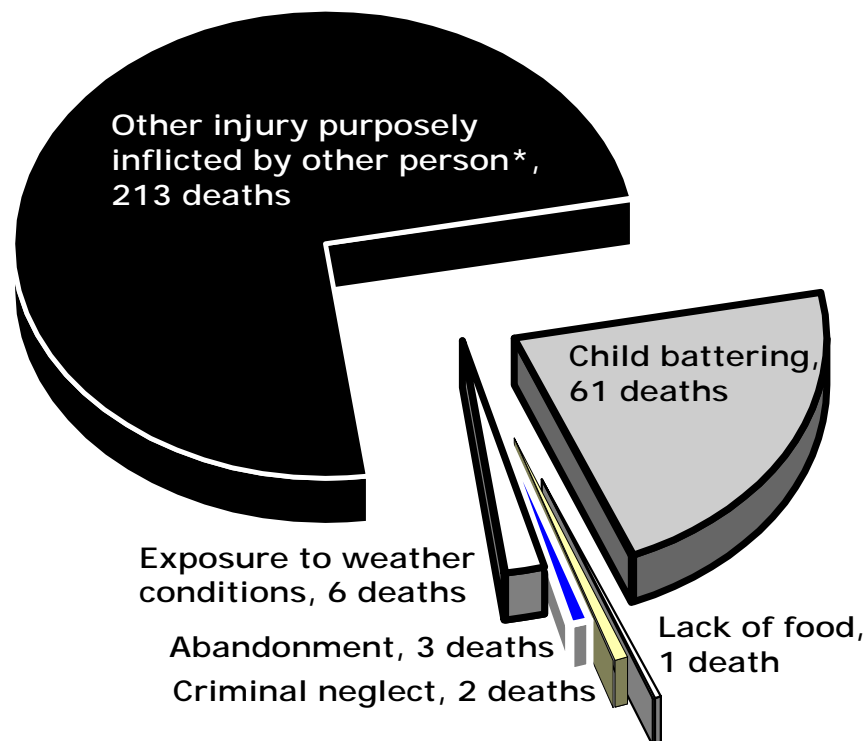
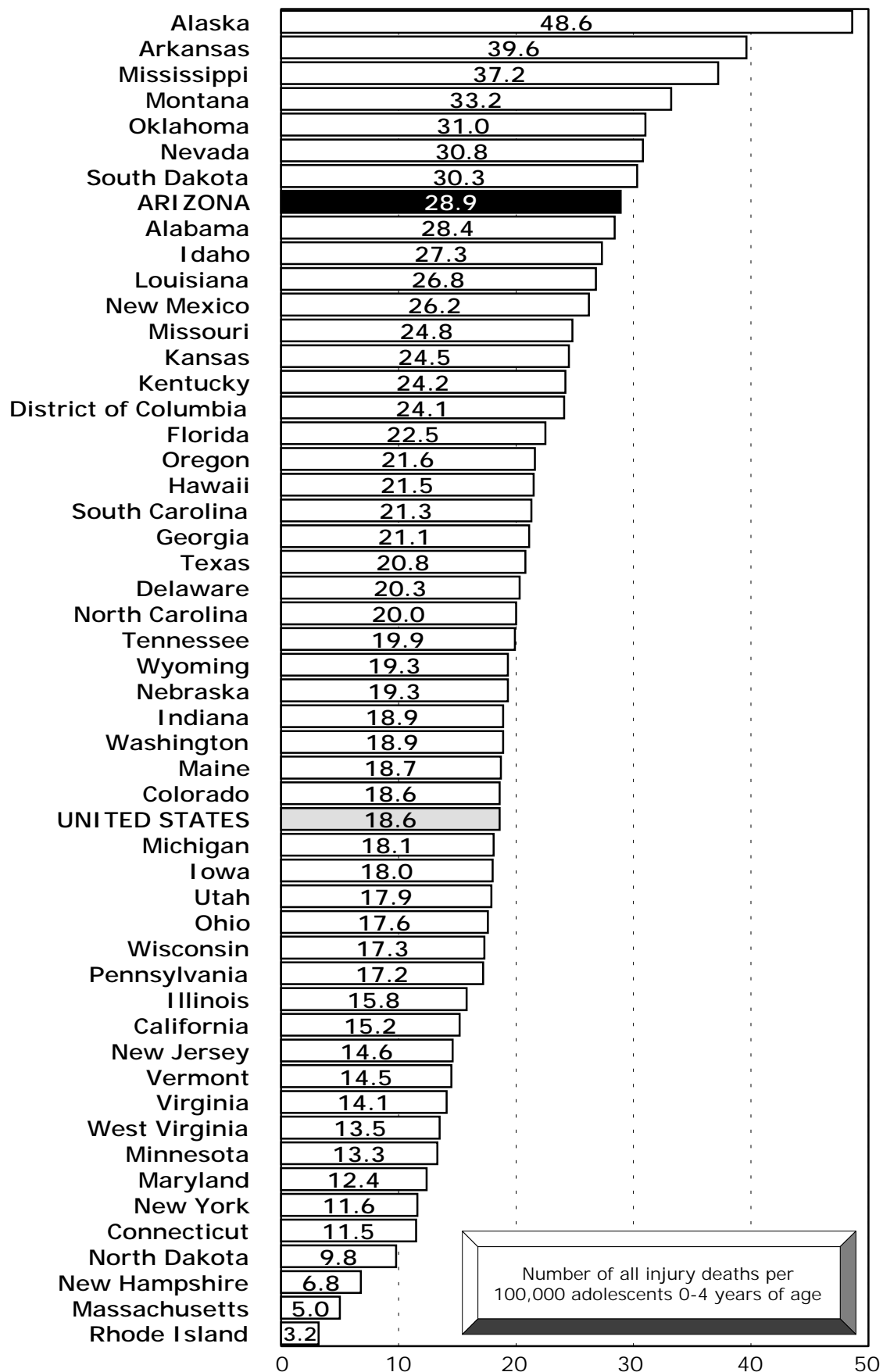


FIGURE 8
NUMBER OF DEATHS FROM NEGLECT, ABUSE AND MALTREATMENT
AMONG CHILDREN 0 - 14 YEARS OF AGE, ARIZONA, 1988 - 1998



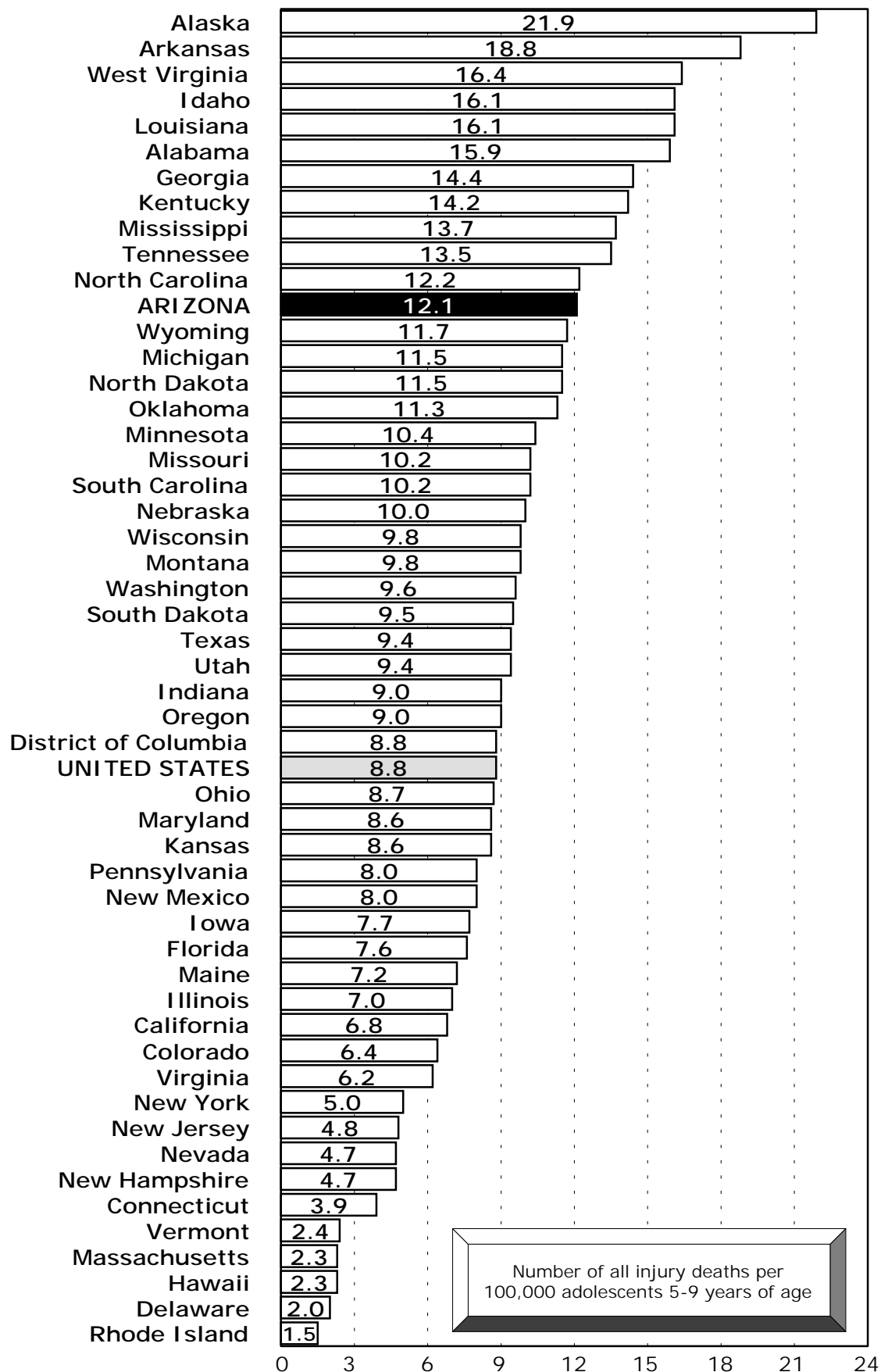
* Excludes child battering and criminal neglect. See Table 18 for details.

FIGURE 9
INJURY MORTALITY RATES FOR CHILDREN 0 - 4 YEARS OLD BY STATE IN 1997*



* This is the latest year for which the data are available by state, All rates except those for Arizona are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

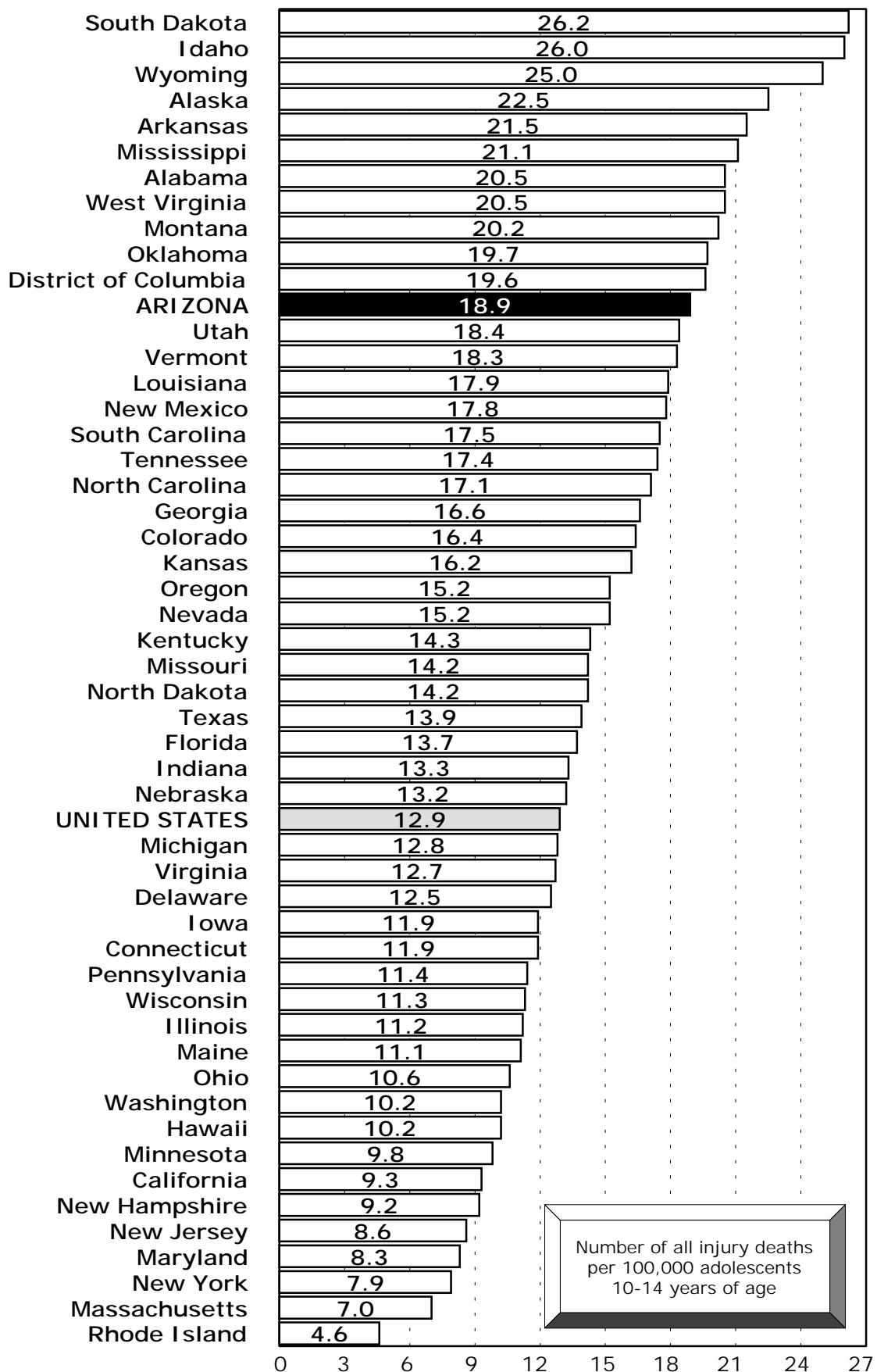
FIGURE 10
INJURY MORTALITY RATES FOR CHILDREN 5 - 9 YEARS OLD BY STATE IN 1997*



* This is the latest year for which the data are available by state, All rates except those for Arizona are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

FIGURE 11

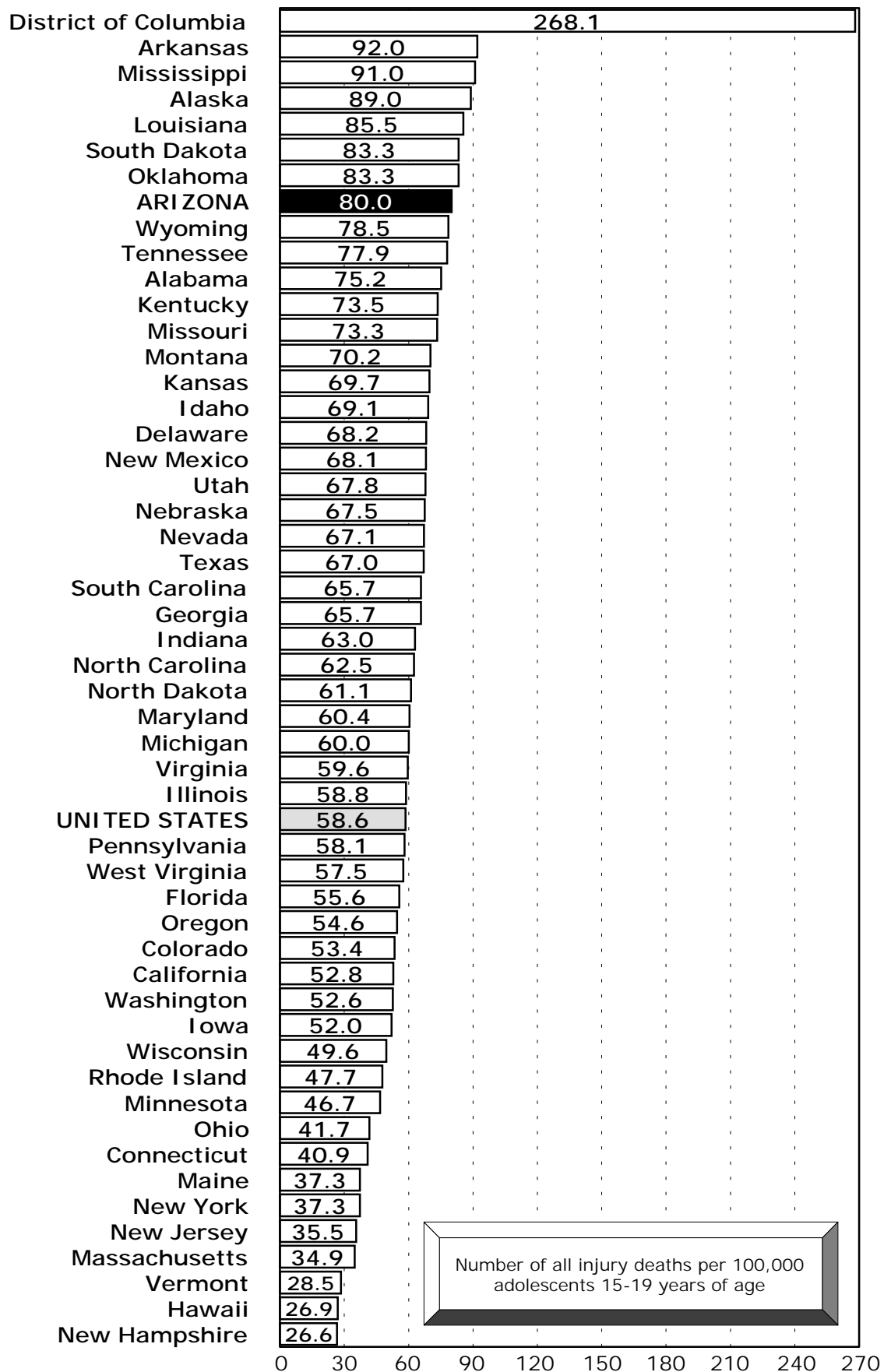
INJURY MORTALITY RATES FOR CHILDREN 10 - 14 YEARS OLD BY STATE IN 1997*



* This is the latest year for which the data are available by state, All rates except those for Arizona are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

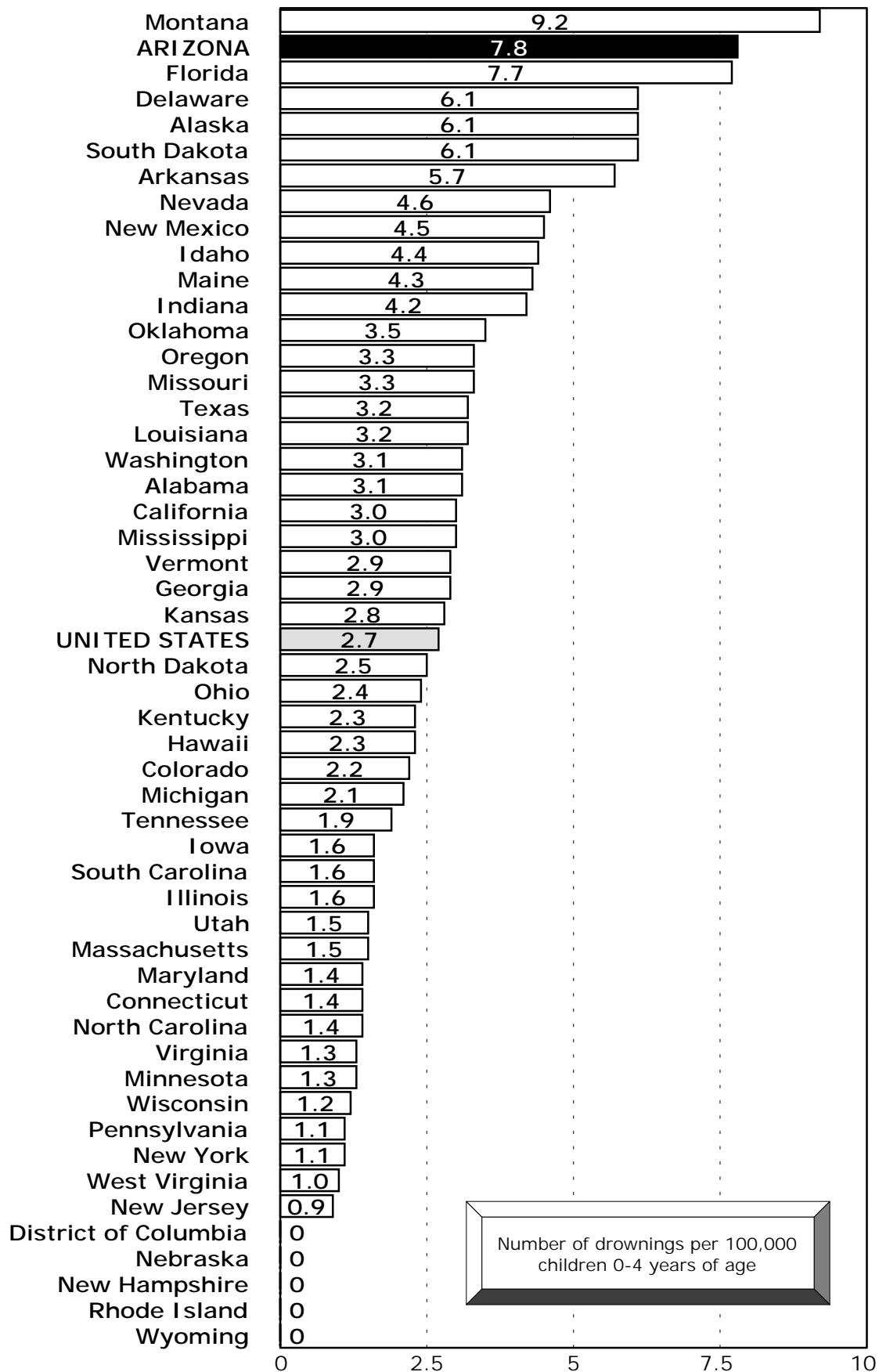
FIGURE 12

INJURY MORTALITY RATES FOR ADOLESCENTS 15 - 19 YEARS OLD BY STATE IN 1997*



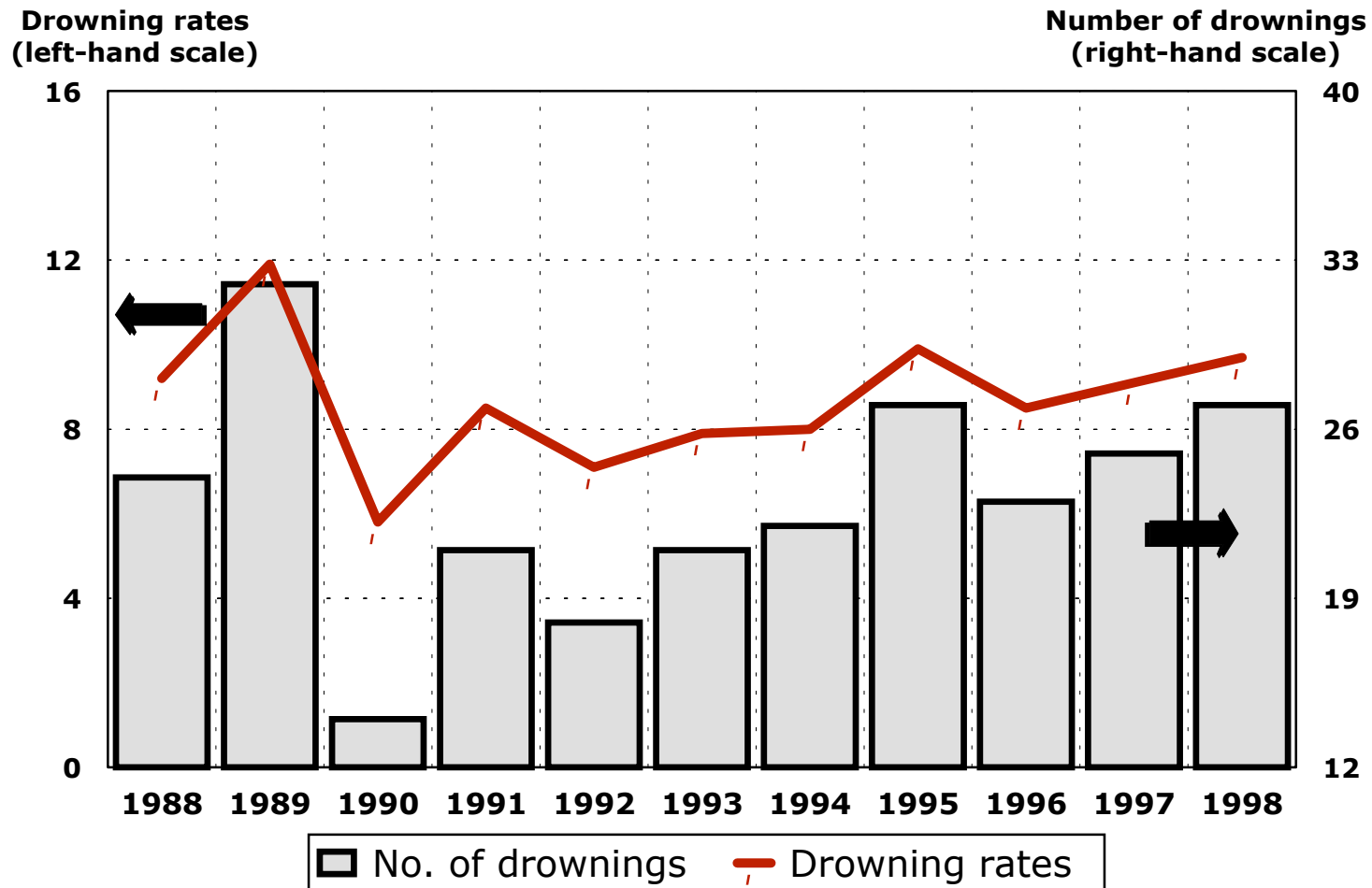
* This is the latest year for which the data are available by state, All rates except those for Arizona are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

FIGURE 13
DROWNING MORTALITY RATES FOR CHILDREN 0 - 4 YEARS OLD BY STATE IN 1997



* This is the latest year for which the data are available by state, All rates except those for Arizona are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

FIGURE 14
TRENDS IN THE NUMBER OF DROWNINGS AND DROWNING RATES* BY
YEAR AMONG CHILDREN 1 - 4 YEARS OLD, ARIZONA, 1988 - 1998



*Number of drowning deaths per 100,000 children 1-4 years old.

**INJURY MORTALITY AMONG CHILDREN AND ADOLESCENTS,
ARIZONA, 1988-1998**

**DATA
TABLES**

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TABLE 1
RATES OF DEATH FROM TYPES OF INJURIES AND FROM NATURAL CAUSES
AMONG AGE GROUPS OF PERSONS 0 - 19 YEARS OLD, ARIZONA, 1988 - 1998

Age Group and Cause of Death	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
UNDER 1 YEAR²											
Mortality from all causes	967.3	920.6	874.8	858.3	834.8	769.2	785.7	758.4	767.0	717.3	759.6
Deaths from natural causes	773.5	871.0	832.7	815.7	781.9	735.8	726.5	728.0	729.7	678.9	733.9
Deaths from injuries	41.2	49.6	42.1	42.6	52.9	33.3	59.2	30.4	37.3	38.4	25.7
(Unintentional injuries)	(30.5)	(39.0)	(33.4)	(32.3)	(36.7)	(26.1)	(45.1)	(19.3)	(30.6)	(23.8)	(18.0)
(Homicide)	(6.1)	(10.5)	(8.7)	(8.8)	(16.2)	(5.8)	(9.9)	(11.1)	(5.3)	(7.9)	(1.3)
(Unknown intent)	(4.6)	(-)	(-)	(1.5)	(-)	(1.4)	(4.2)	(-)	(1.3)	(4.0)	(5.1)
1-4 YEARS											
Mortality from all causes	63.2	56.0	49.3	56.5	50.4	55.0	55.0	51.9	48.1	47.1	53.9
Deaths from natural causes	28.3	24.8	25.3	28.2	22.4	27.3	25.0	20.5	20.4	21.2	25.2
Deaths from injuries	34.8	31.2	24.0	28.2	27.9	27.7	30.0	31.4	27.8	25.9	28.0
(Unintentional injuries)	(29.9)	(27.1)	(20.7)	(25.8)	(24.8)	(24.7)	(23.9)	(27.0)	(23.7)	(22.7)	(24.8)
(Homicide)	(4.6)	(4.1)	(3.3)	(1.6)	(2.8)	(3.0)	(5.4)	(4.0)	(3.0)	(1.1)	(3.2)
(Unknown intent)	(0.4)	(-)	(-)	(0.8)	(0.4)	(-)	(0.7)	(0.4)	(1.1)	(1.1)	(-)
5-9 YEARS											
Mortality from all causes	19.9	23.6	21.3	22.5	25.2	26.2	20.3	21.1	21.6	24.1	19.3
Deaths from natural causes	8.8	9.5	10.3	10.7	13.5	12.6	11.3	8.9	9.2	12.1	10.2
Deaths from injuries	10.5	14.0	11.0	11.8	11.7	13.6	9.0	12.1	12.4	12.1	8.5
(Unintentional injuries)	(9.1)	(12.7)	(9.2)	(11.1)	(10.6)	(12.3)	(8.0)	(11.5)	(9.2)	(10.7)	(7.2)
(Homicide)	(1.4)	(1.3)	(1.4)	(0.4)	(1.1)	(1.3)	(1.0)	(0.6)	(2.3)	(0.8)	(1.1)
(Unknown intent)	(-)	(-)	(0.4)	(0.4)	(-)	(-)	(-)	(-)	(0.9)	(0.3)	(0.3)
10-14 YEARS											
Mortality from all causes	37.1	27.6	30.6	23.4	33.4	38.4	34.4	36.8	30.5	31.1	24.8
Deaths from natural causes	15.2	12.2	11.6	7.9	11.8	15.7	15.7	9.7	11.4	12.3	8.7
Deaths from injuries	21.9	15.3	19.0	15.5	21.7	22.7	18.7	27.1	19.1	18.9	15.7
(Unintentional injuries)	(16.4)	(12.6)	(15.5)	(10.9)	(12.1)	(14.3)	(12.3)	(17.0)	(13.5)	(13.5)	(9.0)
(Homicide)	(3.6)	(0.8)	(1.9)	(1.5)	(5.5)	(3.8)	(1.4)	(4.4)	(3.1)	(2.1)	(3.5)
(Suicide)	(2.0)	(1.1)	(1.6)	(2.3)	(3.7)	(3.8)	(3.1)	(3.7)	(2.2)	(2.1)	(2.9)
(Unknown intent)	(-)	(-)	(-)	(0.8)	(0.4)	(0.7)	(2.0)	(2.0)	(0.3)	(0.6)	(0.3)
15-19 YEARS											
Mortality from all causes	103.0	101.6	90.5	97.0	85.9	117.0	115.6	130.4	114.6	103.1	90.9
Deaths from natural causes	15.3	18.7	15.7	16.4	14.9	20.0	18.3	20.5	20.8	23.1	16.2
Deaths from injuries	87.7	82.9	74.7	80.6	71.0	97.1	97.3	109.9	93.8	80.0	72.6
(Unintentional injuries)	(58.2)	(53.3)	(47.5)	(40.3)	(39.0)	(48.9)	(43.9)	(52.8)	(46.1)	(35.7)	(39.9)
(Homicide)	(9.8)	(10.5)	(10.7)	(19.0)	(18.6)	(23.9)	(27.9)	(33.4)	(24.4)	(19.0)	(16.8)
(Suicide)	(18.5)	(18.7)	(16.1)	(18.3)	(12.4)	(22.7)	(23.7)	(18.7)	(18.2)	(23.7)	(15.2)
(Unknown intent)	(1.2)	(0.4)	(0.4)	(3.0)	(1.1)	(1.6)	(1.9)	(5.0)	(5.1)	(1.6)	(0.6)

¹ Number of deaths per 100,000 population in specified age group per year.

² Number of births was used as the denominator for death rate calculations among infants.

TABLE 2
NUMBER OF DEATHS FROM TYPES OF INJURIES AND DEATHS FROM NATURAL CAUSES
AMONG PERSONS 0 - 19 YEARS OLD BY AGE GROUP AND YEAR, ARIZONA, 1988 - 1998

		Year										
		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<1	Mortality from all causes	634	613	602	584	568	531	557	549	576	542	592
	-Deaths from natural causes	607	580	573	555	532	508	515	527	548	513	572
	-Deaths from injuries	27	33	29	29	36	23	41	22	28	27	20
	--(Unintentional injuries)	20	26	23	22	25	18	32	14	23	18	14
	--(Homicide)	4	7	6	6	11	4	7	8	4	6	4
	--(Unknown intent)	3	0	0	1	0	1	2	0	1	3	2
1-4	Mortality from all causes	165	151	119	140	128	147	152	142	130	129	150
	-Deaths from natural causes	74	67	61	70	57	72	69	56	55	58	70
	-Deaths from injuries	91	84	58	70	71	74	82	85	74	68	78
	--(Unintentional injuries)	78	73	50	64	63	66	66	74	64	62	69
	--(Homicide)	12	11	8	4	7	8	15	11	8	3	9
	--(Unknown intent)	1	0	0	2	1	0	1	0	2	3	0
5-9	Mortality from all causes	57	74	60	65	69	79	63	66	75	86	70
	-Deaths from natural causes	26	30	29	31	37	36	35	28	32	43	37
	-Deaths from injuries	31	44	31	34	32	41	28	38	40	42	31
	--(Unintentional injuries)	27	40	26	32	29	37	25	36	32	38	26
	--(Homicide)	4	4	4	1	3	4	3	2	8	3	4
	--(Unknown intent)	0	0	1	1	0	0	0	0	0	1	1
10-14	Mortality from all causes	93	72	79	62	91	110	101	110	99	104	85
	-Deaths from natural causes	38	32	30	21	32	45	46	29	37	41	30
	-Deaths from injuries	55	40	49	41	59	65	55	76	61	61	54
	--(Unintentional injuries)	41	33	40	29	33	41	36	51	44	45	31
	--(Suicide)	5	3	4	6	10	11	9	11	7	7	10
	--(Homicide)	9	2	5	4	15	11	4	13	10	7	12
	--(Unknown intent)	0	2	0	2	1	2	6	1	0	2	1
15-19	Mortality from all causes	262	261	236	260	236	299	303	363	353	326	298
	-Deaths from natural causes	39	48	39	44	38	47	48	57	64	64	53
	-Deaths from injuries	223	213	197	216	195	248	254	297	279	253	238
	--(Unintentional injuries)	148	137	124	108	107	125	115	147	142	114	131
	--(Suicide)	47	48	42	49	34	58	62	52	56	75	50
	--(Homicide)	25	27	28	51	51	61	73	93	75	60	55
	--(Unknown intent)	3	1	3	8	3	4	4	5	6	4	2

Note: Mortality from all causes includes deaths from natural causes, deaths from injuries and deaths from unknown causes (not shown above).

TABLE 3
MORTALITY RATES¹ BY INJURY TYPE AND AGE GROUP
AMONG INFANTS, CHILDREN AND ADOLESCENTS 0 - 19 YEARS OLD,
ARIZONA (1998) AND UNITED STATES (1997)

<u>Category of injury</u>	<u>AGE GROUP:</u>			
	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>
All Injury Deaths				
ARIZONA	27.3	8.5	15.7	72.6
U.S.	18.6	8.8	12.9	58.6
Unintentional injury, total				
ARIZONA	23.6	7.2	9.0	39.9
U.S.	14.5	7.8	9.7	34.6
---Motor Vehicle-Related, total				
ARIZONA	9.4	5.2	5.0	32.3
U.S.	4.9	4.3	5.9	27.3
---Drowning				
ARIZONA	8.0	0.8	0.9	1.2
U.S.	2.7	1.2	1.1	1.8
---Poisoning				
ARIZONA	0.0	0.0	0.0	1.8
U.S.	0.2	0.1	0.1	1.3
---Suffocation				
ARIZONA	4.3	0.6	0.3	0.9
U.S.	2.7	0.3	0.4	0.4
---Fire/Flames				
ARIZONA	0.9	0.0	1.2	0.0
U.S.	2.1	0.9	0.5	0.5
Homicide				
ARIZONA	3.7	1.1	3.5	16.8
U.S.	3.6	0.9	1.5	13.6
Suicide				
ARIZONA	0.0	0.0	2.9	15.2
U.S.	0.0	0.0	1.6	9.5
Firearms²				
ARIZONA	0.9	0.8	4.7	26.2
U.S.	0.4	0.5	2.3	18.8

¹ The U. S. data for 1997 (the latest available year) are from the Injury Mortality Data Set at <http://wonder.cdc.gov/injury.shtml>

² Includes unintentional injuries caused by firearms, firearm-suicides, firearm-homicides and firearm-related fatalities which are undetermined whether they were purposely or accidentally inflicted.

TABLE 4
MORTALITY RATES¹ FOR LEADING CAUSES² OF UNINTENTIONAL INJURY AMONG PERSONS
0 - 19 YEARS OLD BY AGE GROUP AND YEAR, ARIZONA, 1988 - 1998

<u>Cause of Death by Age Group</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>
INFANTS UNDER 1 YEAR											
Unintentional Injuries	30.5	39.0	33.4	32.3	36.7	26.1	45.1	19.3	30.6	23.8	18.0
Suffocation	12.2	16.5	16.0	13.2	16.0	11.6	24.0	6.9	12.0	15.9	10.2
Motor Vehicle-Related	6.1	10.5	8.7	7.4	8.7	7.2	5.6	8.3	9.3	4.0	6.4
Drowning	9.2	3.0	4.4	7.4	7.3	1.4	5.6	4.1	4.0	1.3	1.3
CHILDREN, 1-4 YEARS											
Unintentional Injuries	29.9	27.1	20.7	25.8	24.8	24.7	23.9	27.0	23.7	22.7	24.8
Drowning	9.2	11.9	5.8	8.5	7.1	7.9	8.0	9.9	8.5	9.1	9.7
Motor Vehicle-Related	12.6	10.0	9.9	10.9	11.0	11.2	7.2	10.6	10.0	9.9	10.1
Fire/Flames	2.7	0.7	1.2	0.8	2.0	1.9	5.8	2.3	1.9	0.4	1.1
CHILDREN, 5-9 YEARS											
Unintentional Injuries	9.1	12.7	9.2	11.1	10.6	12.3	8.0	11.5	9.2	10.7	7.2
Motor Vehicle-Related	5.4	6.7	6.7	6.9	6.7	5.3	3.9	6.7	6.3	6.7	5.2
Drowning	1.7	1.6	1.8	2.4	0.3	2.7	1.9	2.2	0.6	1.4	0.8
Suffocation	--	0.6	0.4	0.4	0.7	0.7	0.3	1.6	0.6	---	0.6
CHILDREN, 10-14 YEARS											
Unintentional Injuries	16.4	12.6	15.5	10.9	12.1	14.3	12.3	17.0	13.5	13.5	9.0
Motor Vehicle-Related	11.6	9.2	10.8	6.8	7.0	7.3	8.5	10.4	10.1	9.0	5.0
Drowning	2.4	0.8	0.8	1.1	0.7	0.7	-	1.7	0.9	0.6	0.9
Firearm-Related	0.4	0.8	0.8	1.1	1.5	2.4	1.0	1.7	0.3	0.6	0.3
ADOLESCENTS, 15-19 YEARS											
Unintentional Injuries	58.2	53.3	47.5	40.3	39.0	48.9	43.9	52.8	46.1	35.7	39.9
Motor Vehicle-Related	45.6	38.9	35.3	31.0	26.6	38.4	35.9	41.0	37.0	27.2	32.3
Drowning	1.6	3.5	2.7	0.7	4.0	2.0	1.9	2.9	2.3	2.5	1.2
Poisoning/Drug Misuse	3.2	2.3	1.9	2.6	1.5	1.6	0.8	3.2	1.3	1.9	1.8

¹ Number of deaths from unintentional injuries per 100,000 population in specified age group.

² Leading causes are the three causes with greatest number of deaths over the 1988-1998 period.

TABLE 5
NUMBER OF FATAL UNINTENTIONAL INJURIES AMONG PERSONS
0 - 19 YEARS OLD BY AGE GROUP AND YEAR, ARIZONA 1988 - 1998

			Year										
			1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
AGE GROUP	< 1	Non-Hispanic white	10	15	13	6	8	3	14	8	10	10	2
		Hispanic	4	2	5	8	9	7	11	6	3	2	10
		Black	3	2	2	1	2	6	2	0	3	4	1
		American Indian	3	7	3	7	6	2	5	0	6	2	0
		Asian	0	0	0	0	0	0	0	0	1	0	1
		TOTAL	20	26	23	22	25	18	32	14	23	18	14
	1-4	Non-Hispanic white	44	43	26	33	23	29	33	32	27	29	29
		Hispanic	18	14	6	19	23	16	17	25	18	22	26
		Black	3	3	3	3	2	6	5	6	3	3	2
		American Indian	13	12	14	8	15	13	11	11	16	7	10
		Asian	0	1	1	1	0	2	0	0	0	1	2
		TOTAL	78	73	50	64	63	66	66	74	64	62	69
	5-9	Non-Hispanic white	11	22	11	20	15	22	13	17	13	19	10
		Hispanic	7	7	9	7	5	8	5	6	5	12	8
		Black	3	7	1	0	2	1	1	5	1	4	0
		American Indian	6	4	4	5	7	6	6	7	12	3	8
		Asian	0	0	1	0	0	0	0	1	1	0	0
		TOTAL	27	40	26	32	29	37	25	36	32	38	26
	10-14	Non-Hispanic white	23	16	17	18	15	19	21	35	19	27	18
		Hispanic	9	8	7	5	11	7	5	9	14	6	7
		Black	5	0	3	1	4	4	2	2	1	3	1
		American Indian	4	9	13	4	3	11	8	4	10	8	5
		Asian	0	0	0	1	0	0	0	1	0	1	0
		TOTAL	41	33	40	29	33	41	36	51	44	45	31
	15-19	Non-Hispanic white	94	78	75	73	67	56	66	80	61	60	68
		Hispanic	28	29	21	18	21	38	27	37	47	26	31
		Black	2	6	4	3	3	5	5	5	3	3	7
		American Indian	24	24	24	13	16	24	17	25	30	25	22
		Asian	0	0	0	1	0	2	0	0	1	0	3
		TOTAL	148	137	124	108	107	125	115	147	142	114	131

TABLE 6
NUMBER OF FATAL UNINTENTIONAL INJURIES AMONG PERSONS
0 - 19 YEARS OLD BY GENDER AND YEAR, ARIZONA 1988 - 1998

			1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
AGE GROUP	<1	Male	12	14	13	13	17	11	22	7	14	11	9
		Female	8	12	10	9	8	7	10	7	9	7	5
		TOTAL	20	26	23	22	25	18	32	14	23	18	14
	1-4	Male	46	48	37	32	37	40	41	42	36	32	44
		Female	32	25	13	32	26	26	25	32	28	30	25
		TOTAL	78	73	50	64	63	66	66	74	64	62	69
	5-9	Male	18	32	17	18	20	21	12	25	22	24	12
		Female	9	8	9	14	9	16	13	11	10	14	14
		TOTAL	27	40	26	32	29	37	25	36	32	38	26
	10-14	Male	23	25	29	19	23	30	22	32	25	35	24
		Female	18	8	11	10	10	11	14	19	19	10	7
		TOTAL	41	33	40	29	33	41	36	51	44	45	31
	15-19	Male	110	109	99	76	77	87	82	111	101	82	88
		Female	38	28	25	32	30	38	33	36	41	32	43
		TOTAL	148	137	124	108	107	125	115	147	142	114	131

TABLE 7
NUMBER OF FATAL UNINTENTIONAL INJURIES AMONG INFANTS UNDER
1 YEAR BY COUNTY OF RESIDENCE AND YEAR, ARIZONA 1988 - 1998

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
APACHE	1	1	1	2	1	0	1	0	0	0	0
COCHISE	0	0	0	0	0	1	1	1	0	0	1
COCONINO	0	2	0	3	0	1	2	0	5	0	0
GILA	0	0	0	0	0	1	0	0	0	0	0
GRAHAM	0	0	1	1	0	0	0	0	1	0	0
MARICOPA	9	11	14	7	15	11	17	8	10	14	9
MOHAVE	1	1	0	0	1	1	2	1	0	0	0
NAVAJO	0	3	1	1	2	0	2	0	0	0	1
PIMA	6	6	5	5	2	2	2	2	2	1	1
PINAL	2	0	0	0	4	0	2	1	1	2	0
SANTA CRUZ	0	0	0	0	0	0	0	0	0	0	1
YAVAPAI	0	0	1	2	0	0	0	0	0	0	0
YUMA	1	1	0	1	0	1	1	0	3	0	1
LA PAZ	0	1	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	2	1	1	1	0
TOTAL	20	26	23	22	25	18	32	14	23	18	14

TABLE 8
NUMBER OF FATAL UNINTENTIONAL INJURIES AMONG CHILDREN
1 - 4 YEARS OLD BY COUNTY OF RESIDENCE AND YEAR, ARIZONA 1988 - 1998

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
APACHE	7	2	4	3	3	2	4	4	3	3	3
COCHISE	5	1	1	2	1	3	0	3	1	1	2
COCONINO	5	3	2	3	5	1	4	1	5	1	1
GILA	0	0	1	1	0	0	2	0	1	0	1
GRAHAM	2	1	1	0	0	1	0	1	1	0	0
GREENLEE	0	0	0	1	0	0	0	0	0	0	0
MARICOPA	32	39	28	28	29	34	32	37	33	40	42
MOHAVE	1	4	1	2	2	3	3	2	1	1	1
NAVAJO	3	2	4	4	5	4	4	4	6	4	4
PIMA	11	10	5	11	5	13	13	7	4	4	10
PINAL	5	6	1	4	9	3	3	7	5	1	0
SANTA CRUZ	0	0	0	0	0	0	0	1	0	1	0
YAVAPAI	2	2	1	2	1	0	0	2	2	2	0
YUMA	5	2	1	3	2	0	0	4	0	1	3
LA PAZ	0	1	0	0	1	0	0	0	1	0	0
UNKNOWN	0	0	0	0	0	2	1	1	1	3	2
TOTAL	78	73	50	64	63	66	66	74	64	62	69

TABLE 9
NUMBER OF FATAL UNINTENTIONAL INJURIES AMONG CHILDREN
5 - 9 YEARS OLD BY COUNTY OF RESIDENCE AND YEAR, ARIZONA 1988 - 1998

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
APACHE	0	0	2	1	1	3	1	2	3	0	2
COCHISE	0	2	0	0	0	1	0	1	1	0	0
COCONINO	0	1	1	3	4	2	1	1	0	2	0
GILA	0	2	0	1	0	0	0	1	1	0	1
GRAHAM	0	0	0	0	0	1	0	3	1	1	0
MARICOPA	14	20	13	14	9	19	13	14	12	19	11
MOHAVE	0	0	1	4	2	1	2	0	0	1	1
NAVAJO	3	3	1	0	2	2	3	1	5	0	1
PIMA	4	7	3	5	3	3	1	3	2	5	3
PINAL	4	3	2	1	1	2	1	3	4	1	1
SANTA CRUZ	0	0	0	1	0	1	0	0	0	0	0
YAVAPAI	0	0	1	0	1	0	1	1	0	2	0
YUMA	2	1	2	2	4	0	0	1	1	3	3
LA PAZ	0	1	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	2	2	2	5	2	4	3
TOTAL	27	40	26	32	29	37	25	36	32	38	26

TABLE 10
NUMBER OF FATAL UNINTENTIONAL INJURIES AMONG CHILDREN
10 - 14 YEARS OLD BY COUNTY OF RESIDENCE AND YEAR, ARIZONA 1988 - 1998

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
APACHE	1	4	1	1	0	7	2	0	4	1	0
COCHISE	2	2	1	0	0	1	0	3	0	1	0
COCONINO	1	1	5	2	1	0	0	2	1	1	1
GILA	0	0	0	0	0	1	0	0	0	0	0
GRAHAM	0	3	1	0	1	0	0	1	0	0	1
MARICOPA	20	15	18	15	12	16	16	21	19	15	13
MOHAVE	2	0	2	1	0	3	1	1	1	5	1
NAVAJO	3	1	2	3	2	2	4	3	2	1	1
PIMA	6	4	7	4	11	6	4	7	5	9	4
PINAL	5	1	1	0	0	2	4	3	6	4	3
YAVAPAI	0	0	0	1	3	2	0	2	0	0	2
YUMA	1	2	2	2	2	1	1	1	1	3	1
LA PAZ	0	0	0	0	1	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	4	7	5	5	4
TOTAL	41	33	40	29	33	41	36	51	44	45	31

TABLE 11
NUMBER OF FATAL UNINTENTIONAL INJURIES AMONG ADOLESCENTS
15 - 19 YEARS OLD BY COUNTY OF RESIDENCE AND YEAR, ARIZONA 1988 - 1998

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
APACHE	12	7	8	5	2	7	7	9	10	6	2
COCHISE	3	5	3	3	2	3	2	6	5	0	5
COCONINO	4	4	6	2	3	4	8	6	10	7	4
GILA	3	2	1	3	2	2	3	2	5	1	0
GRAHAM	1	3	0	0	0	0	1	4	2	1	1
GREENLEE	0	0	1	1	0	0	0	0	1	1	2
MARICOPA	75	56	66	58	56	59	44	68	55	46	58
MOHAVE	6	7	5	5	3	4	2	4	4	5	7
NAVAJO	4	11	9	3	6	5	0	5	5	7	8
PIMA	22	23	13	12	18	17	20	15	15	14	18
PINAL	7	4	8	3	7	8	13	9	6	6	5
SANTA CRUZ	1	1	1	2	0	1	2	1	2	0	1
YAVAPAI	5	3	2	6	3	6	2	2	4	6	6
YUMA	3	7	1	4	3	0	1	2	8	3	5
LA PAZ	2	4	0	1	1	2	0	0	3	2	0
UNKNOWN	0	0	0	0	1	7	10	14	7	9	9
TOTAL	148	137	124	108	107	125	115	147	142	114	131

TABLE 12
ANNUAL NUMBER OF MOTOR VEHICLE, OTHER ROAD VEHICLE AND
RAILWAY-RELATED FATALITIES BY PERSON INJURED AND AGE GROUP
(AGES 0 - 19), ARIZONA, 1988 - 1998

<u>Person Injured and Age Group</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>
DRIVER, ¹ TOTAL:	36	30	24	20	17	25	24	30	27	28	36
5-9 Years	1	0	0	0	0	0	0	0	0	2	0
10-14 Years	1	2	0	0	4	0	1	1	1	2	0
15-19 Years	34	28	24	20	13	24	23	29	26	25	36
OCCUPANT, ² TOTAL:	84	99	90	82	85	99	87	122	118	99	98
Under 1 Year	3	7	6	3	5	4	4	6	5	2	5
1-4 Years	14	7	9	14	12	12	7	13	12	13	8
5-9 Years	8	13	8	9	13	8	6	10	11	14	14
10-14 Years	11	13	18	8	7	16	14	19	21	20	12
15-19 Years	48	59	49	48	48	59	56	74	69	50	59
MOTORCYCLIST ³ TOTAL:	14	1	13	7	2	4	7	4	2	3	5
1-4 Years	0	0	0	0	0	0	0	0	0	0	0
5-9 Years	0	0	1	0	0	0	0	0	0	0	1
10-14 Years	0	0	2	0	1	0	0	0	1	0	2
15-19 Years	14	1	10	7	1	4	7	4	1	3	2
PEDAL CYCLIST, TOTAL:	18	7	11	13	8	3	9	9	13	9	6
1-4 Years	0	0	2	2	0	0	1	0	0	0	1
5-9 Years	0	1	1	4	1	2	4	5	4	1	0
10-14 Years	9	4	5	5	2	0	3	3	6	5	3
15-19 Years	9	2	3	2	5	1	1	1	3	3	2
PEDESTRIAN, TOTAL	47	39	32	33	35	38	29	36	46	34	30
Under 1 Year	1	0	0	2	1	1	0	0	2	1	0
1-4 Years	19	20	13	11	15	17	12	16	15	14	19
5-9 Years	7	7	9	7	6	6	3	6	8	7	4
10-14 Years	8	4	4	7	5	5	7	8	5	5	0
15-19 Years	12	8	6	6	8	9	7	6	16	7	7

1 Drivers of all motor vehicles except motorcycles.

2 Non-driving occupants of all motor vehicles except motorcycles.

3 Drivers and riders of motorcycles.

TABLE 13
NUMBER OF UNINTENTIONAL INJURY DEATHS BY CAUSE
AND YEAR AMONG INFANTS, ARIZONA, 1988 - 1998

	Year										
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL	20	26	23	22	25	18	32	14	23	18	14
2. E810-E825. MOTOR VEHICLE-RELATED INJURIES	4	7	6	5	6	5	4	6	7	3	5
7. E850-E858. POISONING BY DRUGS/MEDICAMENTS	0	1	0	0	0	0	0	0	0	0	0
8. E860-E869. POISONING BY OTHER SUBSTANCES, GASES AND VAPORS	1	0	0	0	0	0	0	0	0	0	0
9. E880-E888. FALL INJURIES	0	0	0	0	1	1	1	0	1	1	0
10. E890-E899. FIRE AND FLAMES	0	1	1	0	0	1	2	0	1	0	0
11. E900.0. EXCESSIVE HEAT DUE TO WEATHER CONDITIONS	0	0	0	0	0	0	1	0	0	0	0
17. E906.0. DOG BITE	0	0	0	0	0	0	0	0	1	0	0
19. E907. LIGHTNING	0	0	0	1	0	0	0	0	0	0	0
21. E910. DROWNING	6	2	3	5	5	1	4	3	3	1	1
22. E911. CHOKED ON FOOD	0	2	5	1	1	0	1	1	1	0	0
23. E912. CHOKED ON OTHER OBJECT	1	0	3	1	0	1	2	0	0	4	0
24. E913. MECHANICAL SUFFOCATION	7	9	3	7	10	7	14	4	8	8	8
26. E925. ELECTRIC CURRENT	0	0	1	0	1	0	0	0	0	0	0
29. E870-E879. MISADVENTURES DURING MEDICAL/SURGICAL CARE	1	2	0	0	1	1	3	0	1	1	0
ALL OTHER	0	2	1	2	0	1	0	0	0	0	0

TABLE 14
NUMBER OF UNINTENTIONAL INJURY DEATHS BY CAUSE AND
YEAR AMONG CHILDREN 1 - 4 YEARS OLD, ARIZONA, 1988 - 1998

	Year										
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL	78	73	50	64	63	66	66	74	64	62	69
2. E810-E825. MOTOR VEHICLE-RELATED INJURIES	33	27	24	27	28	30	20	29	27	27	28
4. E830-E838. INJURIES IN WATER TRANSPORT ACCIDENTS	0	0	0	0	0	0	0	0	0	1	0
6. E840-E845. ACCIDENT INVOLVING AIRCRAFT	0	0	0	1	0	0	0	0	0	0	0
7. E850-E858. POISONING BY DRUGS/MEDICAMENTS	2	0	0	0	0	0	0	1	0	1	0
8. E860-E869. POISONING BY OTHER SUBSTANCES, GASES AND VAPORS	0	1	0	0	0	2	0	0	0	0	0
9. E880-E888. FALL INJURIES	0	1	2	2	2	2	0	1	0	0	0
10. E890-E899. FIRE AND FLAMES	7	2	3	2	5	5	16	7	5	1	3
11. E900.0. EXCESSIVE HEAT DUE TO WEATHER CONDITIONS	0	0	0	0	0	1	0	0	1	1	1
20. E908. STORMS AND FLOODS	0	0	0	1	0	0	0	0	0	0	0
21. E910. DROWNING	24	32	14	21	18	21	22	27	23	24	27
22. E911. CHOKED ON FOOD	1	2	0	3	1	0	1	1	3	0	3
23. E912. CHOKED ON OTHER OBJECT	2	0	1	2	1	1	1	0	1	0	2
24. E913. MECHANICAL SUFFOCATION	1	3	3	2	1	2	0	2	1	2	2
25. E922. FIREARMS	3	1	0	1	1	1	2	0	0	0	1
26. E925. ELECTRIC CURRENT	0	1	0	0	1	0	0	0	0	0	0
29. E870-E879. MISADVENTURES DURING MEDICAL/SURGICAL CARE	0	1	0	0	1	0	0	0	0	1	0
ALL OTHER	5	2	3	2	4	1	4	6	3	4	2

TABLE 15
NUMBER OF UNINTENTIONAL INJURY DEATHS BY CAUSE AND
YEAR AMONG CHILDREN 5 - 9 YEARS OLD, ARIZONA, 1988 - 1998

	Year										
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL	27	40	26	32	29	37	25	36	32	38	26
1. E800-E807. INJURIES IN RAILWAY ACCIDENTS	0	0	0	0	0	0	1	0	0	0	0
2. E810-E825. MOTOR VEHICLE-RELATED INJURIES	16	21	19	20	20	16	12	21	22	24	19
3. E826-E829. ACCIDENTS INVOLVING OTHER ROAD VEHICLE	0	1	0	0	0	1	0	0	1	0	0
4. E830-E838. INJURIES IN WATER TRANSPORT ACCIDENTS	0	0	0	0	0	1	1	0	1	0	0
6. E840-E845. ACCIDENT INVOLVING AIRCRAFT	0	0	0	1	0	0	0	0	0	0	0
7. E850-E858. POISONING BY DRUGS/MEDICAMENTS	0	0	0	0	0	1	0	0	0	0	0
8. E860-E869. POISONING BY OTHER SUBSTANCES, GASES AND VAPORS	1	0	0	0	0	1	0	0	1	3	0
9. E880-E888. FALL INJURIES	2	1	0	0	1	0	0	0	0	2	1
10. E890-E899. FIRE AND FLAMES	2	4	1	0	1	2	5	1	1	0	0
12. E901.0. EXCESSIVE COLD DUE TO WEATHER CONDITIONS	0	0	0	0	0	0	0	0	1	0	0
21. E910. DROWNING	5	5	5	7	1	7	5	7	2	5	3
22. E911. CHOKED ON FOOD	0	0	0	0	0	1	0	2	1	0	0
23. E912. CHOKED ON OTHER OBJECT	0	0	0	0	0	1	1	0	0	0	0
24. E913. MECHANICAL SUFFOCATION	0	2	1	1	2	0	0	3	0	0	2
25. E922. FIREARMS	0	2	0	0	1	1	0	1	1	2	1
26. E925. ELECTRIC CURRENT	0	0	0	0	1	0	0	0	0	0	0
ALL OTHER	1	4	0	3	2	5	0	1	1	2	0

TABLE 16
NUMBER OF UNINTENTIONAL INJURY DEATHS BY CAUSE AND YEAR
AMONG CHILDREN 10 - 14 YEARS OLD, ARIZONA, 1988 - 1998

	Year										
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL	41	33	40	29	33	41	36	51	44	45	31
1. E800-E807. INJURIES IN RAILWAY ACCIDENTS	0	0	0	2	0	0	0	0	1	1	0
2. E810-E825. MOTOR VEHICLE-RELATED INJURIES	29	24	29	18	19	21	25	31	33	30	17
3. E826-E829. ACCIDENTS INVOLVING OTHER ROAD VEHICLE	0	0	0	0	0	0	2	1	1	1	0
4. E830-E838. INJURIES IN WATER TRANSPORT ACCIDENTS	1	0	0	0	0	0	0	1	0	0	1
6. E840-E845. ACCIDENT INVOLVING AIRCRAFT	1	0	0	1	1	0	0	0	1	0	0
7. E850-E858. POISONING BY DRUGS/MEDICAMENTS	0	0	1	0	0	1	0	0	0	1	0
8. E860-E869. POISONING BY OTHER SUBSTANCES, GASES AND VAPORS	0	1	1	1	1	0	0	0	0	1	0
9. E880-E888. FALL INJURIES	1	1	0	0	0	2	2	1	0	0	0
10. E890-E899. FIRE AND FLAMES	1	0	0	0	3	2	2	6	2	0	4
11. E900.0. EXCESSIVE HEAT DUE TO WEATHER CONDITIONS	1	0	0	0	0	1	0	0	0	0	0
12. E901.0. EXCESSIVE COLD DUE TO WEATHER CONDITIONS	0	0	0	0	0	0	0	0	1	0	0
20. E908. STORMS AND FLOODS	0	0	0	0	0	0	0	0	0	0	1
21. E910. DROWNING	6	2	2	3	2	2	0	4	3	2	3
22. E911. CHOKED ON FOOD	0	0	0	0	0	0	1	0	0	0	0
23. E912. CHOKED ON OTHER OBJECT	0	0	0	0	0	1	0	1	0	0	1
24. E913. MECHANICAL SUFFOCATION	0	1	2	0	1	2	0	1	0	4	0
25. E922. FIREARMS	1	2	2	3	4	7	3	5	1	2	1
26. E925. ELECTRIC CURRENT	0	0	0	0	0	0	0	0	0	2	0
ALL OTHER	0	2	3	1	2	2	1	0	1	1	3

TABLE 17
NUMBER OF UNINTENTIONAL INJURY DEATHS BY CAUSE AND YEAR
AMONG ADOLESCENTS 15 - 19 YEARS OLD, ARIZONA, 1988 - 1998

	Year										
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL	148	137	124	108	107	125	115	147	142	114	131
1. E800-E807. INJURIES IN RAILWAY ACCIDENTS	1	1	2	0	1	1	1	0	1	2	0
2. E810-E825. MOTOR VEHICLE-RELATED INJURIES	116	100	92	83	73	98	94	114	114	86	106
3. E826-E829. ACCIDENTS INVOLVING OTHER ROAD VEHICLE	0	0	1	0	1	0	0	0	1	0	0
4. E830-E838. INJURIES IN WATER TRANSPORT ACCIDENTS	1	0	0	0	2	0	3	0	1	2	0
6. E840-E845. ACCIDENT INVOLVING AIRCRAFT	1	0	0	3	0	0	0	0	0	2	2
7. E850-E858. POISONING BY DRUGS/MEDICAMENTS	3	3	2	3	3	1	3	5	3	6	5
8. E860-E869. POISONING BY OTHER SUBSTANCES, GASES AND VAPORS	5	3	3	4	1	3	0	4	1	3	1
9. E880-E888. FALL INJURIES	2	1	2	3	0	2	2	2	4	1	1
10. E890-E899. FIRE AND FLAMES	1	2	0	1	1	1	1	2	1	2	0
11. E900.0. EXCESSIVE HEAT DUE TO WEATHER CONDITIONS	0	0	0	1	1	0	0	1	0	0	3
12. E901.0. EXCESSIVE COLD DUE TO WEATHER CONDITIONS	0	0	2	0	0	1	2	0	0	0	0
19. E907. LIGHTNING	2	0	0	1	1	0	0	0	1	0	0
21. E910. DROWNING	4	9	7	2	9	5	3	8	7	8	4
22. E911. CHOKED ON FOOD	1	0	0	0	0	0	0	0	0	0	1
23. E912. CHOKED ON OTHER OBJECT	0	0	0	0	1	1	0	1	0	0	0
24. E913. MECHANICAL SUFFOCATION	1	1	2	1	0	0	1	2	0	0	2
25. E922. FIREARMS	5	7	7	5	8	10	2	4	4	2	2
26. E925. ELECTRIC CURRENT	1	4	0	0	1	0	1	1	1	0	0
29. E870-E879. MISADVENTURES DURING MEDICAL/SURGICAL CARE	0	1	0	1	0	0	0	0	0	0	0
ALL OTHER	4	5	4	0	4	2	2	3	3	0	4

TABLE 18
NEGLECT, ABUSE AND MALTREATMENT AS CAUSES OF DEATH AMONG
CHILDREN 0 - 14 YEARS OF AGE, ARIZONA, 1988 - 1998

Circumstances and conditions resulting in death	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
HOMICIDE AND INJURY PURPOSELY INFLICTED BY OTHER PERSON, TOTAL:	29	24	23	15	36	27	29	34	27	19	28
-Child Battering and Other Maltreatment ¹	5	7	3	2	7	4	9	10	9	5	5
-----By parent	1	1	0	0	0	0	0	2	1	0	0
-----By other person	4	6	3	2	7	4	9	8	8	5	5
-Criminal Neglect ²	1	0	0	0	0	0	1	0	0	0	0
-Fight, Brawl, Rape ³	0	0	0	0	0	0	0	0	0	0	1
-All Other Kinds of Assault and Late Effects of Injury Purposely Inflicted by Other Person ⁴	23	17	20	13	29	23	19	24	18	14	22
HUNGER, THIRST, EXPOSURE, NEGLECT,⁵ TOTAL:	3	1	0	1	2	1	1	0	0	1	0
-Abandonment or Neglect of Infants and Helpless Persons	1	0	0	1	1	0	0	0	0	0	0
-Lack of Food	1	0	0	0	0	0	0	0	0	0	0
-Lack of Water	0	0	0	0	0	0	0	0	0	0	0
-Exposure to Weather Conditions	1	1	0	0	1	1	1	0	0	1	0
-Privation, Unqualified	0	0	0	0	0	0	0	0	0	0	0

¹ The underlying cause of death coded in ICD-9 as E967.

² The underlying cause of death coded in ICD-9 as 968.4 (Abandonment of child or infant with intent to injure or kill.)

³ The underlying cause of death coded in ICD-9 as 960.

⁴ Remainder of codes E960-E969.

⁵ The underlying cause of death in ICD-9 as E904. (Excludes conditions resulting from homicidal intent)

TABLE 19
RATES¹ OF DEATH FROM INJURIES AMONG PERSONS 19 OR LESS
YEARS OLD BY TYPE OF INJURY, AGE GROUP AND ETHNICITY,
ARIZONA 1998

<u>AGE GROUP/INJURY TYPE</u>	<u>ETHNICITY:*</u>				
	<u>WHITE²</u>	<u>HISPANIC</u>	<u>BLACK</u>	<u>AMERICAN INDIAN</u>	<u>ALL ETHNIC GROUPS</u>
UNDER 1, all injury deaths:	13.0	41.6	76.1	---	25.7
UNINTENTIONAL	5.2	34.7	38.0	---	18.0
HOMICIDE	2.6	6.9	38.0	---	5.1
UNKNOWN INTENT	5.2	----	---	---	2.6
1-14 YEARS, all injury deaths:	13.9	16.1	9.3	34.6	16.6
UNINTENTIONAL	10.2	13.5	7.0	26.6	12.8
HOMICIDE	2.7	1.6	2.3	4.6	2.5
SUICIDE	0.9	1.0	---	3.5	1.1
UNKNOWN INTENT	0.2	0.7	---	---	0.1
15-19 YEARS, all injury deaths:	53.6	73.3	91.8	126.1	72.6
UNINTENTIONAL	32.8	32.0	45.9	81.6	39.9
HOMICIDE	6.8	26.9	39.4	26.0	16.8
SUICIDE	13.0	14.5	6.6	18.5	15.2
UNKNOWN INTENT	1.0	---	---	---	0.6

¹ The number of deaths from injuries (unintentional injuries + injuries in homicide and suicide+unknown intent) per 100,000 in specified group per year.

² Not of Hispanic origin.

* The rates for Asian and Pacific Islanders do not meet standards of reliability and precision. There were 6 injury deaths among Asians 19 or younger in Arizona in 1998.

Note: Number of births was used as the denominator for death rate calculation among infants.

TABLE 20
DROWNINGS AND DROWNING RATES BY AGE AMONG CHILDREN 0 - 4 YEARS OLD,
ARIZONA, 1988 - 1998

Age	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
NUMBER OF DROWNINGS BY AGE											
Under 1	6	2	3	5	5	1	4	3	4	2	1
1	10	12	6	11	10	12	8	14	6	15	16
2	8	13	2	5	4	5	6	6	11	5	5
3	4	1	4	4	2	4	4	2	3	4	4
4	2	6	2	1	2	0	4	5	3	1	2
Subtotal, 1-4	24	32	14	21	18	21	22	27	23	25	27
Total, 0-4	30	34	17	26	23	22	26	30	27	27	28
DROWNING MORTALITY RATES BY AGE*											
Under 1	9.2	3.0	4.4	9.5	9.2	1.4	5.7	4.4	5.6	2.8	1.3
1	15.2	18.0	9.7	17.8	15.2	17.4	11.5	20.5	10.3	21.0	22.1
2	12.1	19.3	3.2	8.1	6.1	7.2	8.6	8.8	15.7	10.9	6.9
3	6.1	1.5	6.8	6.5	3.2	6.1	5.7	2.9	4.3	6.5	2.8
4	3.2	8.9	3.4	1.6	3.3	-	5.6	7.3	4.3	1.7	1.7
Subtotal, 1-4	9.2	11.9	5.8	8.5	7.1	7.9	8.0	9.9	8.5	9.1	9.7
Total, 0-4	9.2	10.1	5.8	8.7	9.0	6.5	7.5	8.8	7.9	7.8	8.0

*Per 100,000 population in specified group.

Note: Many rates shown in this table are based on a small population, a small number of events or both.
Rates based on small numbers (10 or less) are not statistically reliable.

TABLE 21
DROWNING DEATHS BY PLACE AND/OR CIRCUMSTANCES OF IMMERSION (CHILDREN 0 – 4) BY YEARS,
ARIZONA, 1988 - 1998

	YEAR										
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Home swimming pool	21	29	14	17	12	13	16	20	20	21	24
Not at home swimming pool	1	1	0	0	0	0	0	0	0	0	0
Bathtub	3	0	2	2	5	5	4	3	1	2	2
Accident to or on watercraft causing submersion	0	0	0	0	0	0	0	0	0	1	0
Submersion or drowning while engaged in sport	1	1	1	2	0	1	1	1	0	0	1
Other and/or no otherwise specified circumstances	4	3	0	5	6	3	5	6	5	2	1
Unclassifiable	0	0	0	0	0	0	0	0	1	1	0
TOTAL	30	34	17	26	23	22	26	30	27	27	28

TABLE 22
NUMBER OF DROWNINGS AMONG CHILDREN 0 - 4 YEARS OF AGE BY REGION AND COUNTY OF RESIDENCE BY YEAR,
ARIZONA, 1988 - 1998

Area and county of residence:		YEAR										
		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
URBAN	MARICOPA	14	27	14	18	14	17	17	16	18	23	19
	PIMA	7	4	1	5	3	4	6	4	2	2	4
	PINAL	4	1	0	0	3	1	1	5	3	0	0
	YUMA	4	1	0	1	1	0	0	0	0	0	0
	TOTAL	29	33	15	24	21	22	24	25	23	25	23
RURAL	COCHISE	1	0	1	0	0	0	0	0	0	0	1
	COCONINO	0	0	0	1	0	0	1	1	0	0	0
	GILA	0	0	0	0	0	0	0	0	0	0	1
	GRAHAM	0	0	0	1	0	0	0	1	0	0	0
	MOHAVE	0	0	0	0	0	0	1	0	0	0	1
	NAVAJO	0	0	0	0	2	0	0	1	3	0	1
	YAVAPAI	0	1	1	0	0	0	0	2	1	0	0
	UNKNOWN	0	0	0	0	0	0	0	0	0	2	1
	TOTAL	1	1	2	2	2	0	2	5	4	2	5
Total		30	34	17	26	23	22	26	30	27	27	28

TABLE 23
NUMBER OF DROWNINGS BY MONTH AND YEAR AMONG CHILDREN 0 - 4 YEARS OLD,
ARIZONA, 1988 - 1998

		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MONTH OF DEATH	JAN	1	0	2	0	2	0	1	0	0	0	1
	FEB	1	3	1	2	2	0	2	0	1	0	0
	MARCH	1	6	1	1	0	0	0	4	0	3	1
	APRIL	2	5	1	3	2	0	1	2	3	0	2
	MAY	5	3	3	1	1	0	2	4	6	6	3
	JUNE	2	6	1	6	1	6	2	5	6	4	4
	JULY	6	4	2	2	3	7	3	5	3	3	6
	AUG	2	2	0	3	2	4	3	4	3	4	5
	SEPT	3	2	4	3	3	1	5	2	0	2	3
	OCT	5	2	1	2	3	1	5	1	2	3	1
	NOV	1	0	0	2	3	1	0	1	2	0	0
	DEC	1	1	1	1	1	2	2	2	1	2	2
TOTAL		30	34	17	26	23	22	26	30	27	27	28

Our Web site at <http://www.hs.state.az.us/plan/ohpes.htm> provides instantaneous access to a wide range of statistical information about health status and use of health care in Arizona. The [*Arizona Health Status and Vital Statistics*](#) annual report examines trends in natality, mortality and morbidity towards established health objectives. Additional data can be found in the special reports and studies focused on differences in the health status by ethnic group, suicide mortality, unintentional injury mortality among children and adolescents, firearm-related fatalities, unintentional drowning deaths, drug-related mortality, teenage pregnancy and abortion practices in Arizona. The [*Monthly Vital Statistics Bulletin*](#) has the most up to date information on births, deaths, marriages and divorces.



**Office of Epidemiology and Statistics
Bureau of Public Health Statistics
Public Health Services
ARIZONA DEPARTMENT OF HEALTH SERVICES**
